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| APPLICATION NO.   | FILING DATE                                   | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO |
|---|---|----------------------|---------------------|-----------------|
| 10/501,150  | 07/13/2004                                    | Syuji Matsuda        | 2004_1091A          | 5201            |
| WENDEROTH, LIND & PONACK, L.L.P.<br>2033 K STREET N. W. |   |                      | EXAMINER            |                 |
|   |   |                      | TORRES, JOSEPH D    |                 |
| SUITE 800<br>WASHINGTON                                 | SUITE 800 WASHINGTON, DC 20006-1021  ART UNIT |                      | ART UNIT            | PAPER NUMBER    |
|   | 20000 1021                                    |                      | 2133                |                 |
| SHORTENED STATUTORY P                                   | ERIOD OF RESPONSE                             | MAIL DATE            | DELIVER             | Y MODE          |
| 31 DAY  | 'S  | 12/26/2006           | PAPER               |                 |

## Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

| <u>.</u>   |  | Application No.   | Applicant(s)  |  |  |  |  |
|--|--|---|---|--|--|--|--|
| Office Action Summary  |  | 10/501,150  | MATSUDA ET AL.  |  |  |  |  |
|  |  | Examiner  | Art Unit  |  |  |  |  |
|  |  | Joseph D. Torres  | 2133  |  |  |  |  |
| The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply       |  |   |   |  |  |  |  |
| WHIC<br>- Exte<br>. after<br>- If NC<br>- Failu<br>Any   | ORTENED STATUTORY PERIOD FOR REPL<br>CHEVER IS LONGER, FROM THE MAILING D<br>nsions of time may be available under the provisions of 37 CFR 1.1<br>SIX (6) MONTHS from the mailing date of this communication. O<br>period for reply is specified above, the maximum statutory period<br>are to reply within the set or extended period for reply will, by statute<br>reply received by the Office later than three months after the mailine<br>and patent term adjustment. See 37 CFR 1.704(b). | ATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from a, cause the application to become ABANDONE | N. nely filed the mailing date of this communication. D (35 U.S.C. § 133) |  |  |  |  |
| Status   |  |   |   |  |  |  |  |
| 1)   | Responsive to communication(s) filed on <u>01 N</u>  | lovember 2006.  |   |  |  |  |  |
|  | This action is <b>FINAL</b> . 2b) This action is non-final.  |   |   |  |  |  |  |
| 3)□  | Since this application is in condition for allowance except for formal matters, prosecution as to the merits is  |   |   |  |  |  |  |
|  | closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  |   |   |  |  |  |  |
| Dispositi  | on of Claims   |   |   |  |  |  |  |
| 4)⊠  | 4) Claim(s) 1-40 is/are pending in the application.  |   |   |  |  |  |  |
|  | 4a) Of the above claim(s) is/are withdrawn from consideration.   |   |   |  |  |  |  |
|  | Claim(s) is/are allowed.   |   |   |  |  |  |  |
|  | <u>·</u>   |   |   |  |  |  |  |
|  | Claim(s) is/are objected to.   |   |   |  |  |  |  |
| 8)🖂  | Claim(s) 1-40 are subject to restriction and/or  | election requirement.   |   |  |  |  |  |
| Applicati  | on Papers  |   |   |  |  |  |  |
| 9)[]   | The specification is objected to by the Examine  | ar.   |   |  |  |  |  |
|  | 10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.   |   |   |  |  |  |  |
| Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).                  |  |   |   |  |  |  |  |
| Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). |  |   |   |  |  |  |  |
| 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.             |  |   |   |  |  |  |  |
|  | inder 35 U.S.C. § 119  |   | 7.0   |  |  |  |  |
| 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).                          |  |   |   |  |  |  |  |
| _  | a) All b) Some * c) None of:   |   |   |  |  |  |  |
| /-   | 1. Certified copies of the priority documents have been received.  |   |   |  |  |  |  |
|  | 2. Certified copies of the priority documents have been received in Application No   |   |   |  |  |  |  |
|  | 3. Copies of the certified copies of the priority documents have been received in this National Stage  |   |   |  |  |  |  |
|  | application from the International Bureau (PCT Rule 17.2(a)).  |   |   |  |  |  |  |
| * See the attached detailed Office action for a list of the certified copies not received.                               |  |   |   |  |  |  |  |
|  |  | 2 22132 22p.23330110  |   |  |  |  |  |
| Attachma=  | v(c)   |   |   |  |  |  |  |
| Attachment   | e of References Cited (PTO-892)  | A) 🔯 Indonésia (0   | (DTO 442)   |  |  |  |  |
| 1)   |  |   |   |  |  |  |  |
| 3) Information Disclosure Statement(s) (PTO/SB/08)  5) Notice of Informal Patent Application                             |  |   |   |  |  |  |  |
| Paper No(s)/Mail Date 6) Other:  |  |   |   |  |  |  |  |

Application/Control Number: 10/501,150

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## **DETAILED ACTION**

## Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1-6, drawn to An error correction method for performing error correction on data which are interleaved using a step for determining judging whether or not the position of a target byte in a target code line is on the boundary with a data region which comprise error correction codes that are independent from error correction codes in said target code line, with the erasure position information.

Group II, claim(s) 7-16, drawn to An error correction apparatus comprising a first memory circuit for storing data to be subjected to error correction; a first control circuit for performing control so as to rearrange data being transferred from the first memory circuit to the error correction circuit, in the order in which the data are to be subjected to error correction; and an error correction circuit for performing error correction on the data stored in the first memory circuit.

Group III, claim(s) 17-40, drawn to An error correction method comprising a judgment step for judging whether or not a first data, which is one of the elements of code line in said error correction target, and a second data, which exists on the same position as the first data in the code line of previous error correction, existed between the same sub data before being deinterleaved; and a configuration step for configuring erasure position information of said second data as erasure position information of said first data when the first and second data existed between the same sub data.

The inventions listed as Groups I to III do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: Group I is directed to a judgment step used to determine which erasure information to use, Group II is directed to specific error correction circuitry with memory for rearranging data prior to subjecting the data to error correction and Group III is directed to an error correction method using sub data different from error correction in the error correction process.

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A telephone call was made to Kenneth W. Fields on 12/8/2006 to request an oral election to the above restriction requirement, but did not result in an election being made.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

TECHNOLOGY

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph D. Torres whose telephone number is (571) 272-3829. The examiner can normally be reached on M-F 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Albert Decady can be reached on (571) 272-3819. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Joseph D. Torres, PhD Primary Examiner Art Unit 2133